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Title : TRANSPORTER POLYPEPTIDE AND METHOD OF PRODUCING SAME

**Attention: Official Draftsman**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

TRANSMITTAL OF FORMAL DRAWINGS

In response to the Notice Regarding Drawings mailed March 10, 2004, please substitute the enclosed thirteen (13) sheets of formal drawings for the corresponding drawings presently in the application.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: May 7, 2004

  
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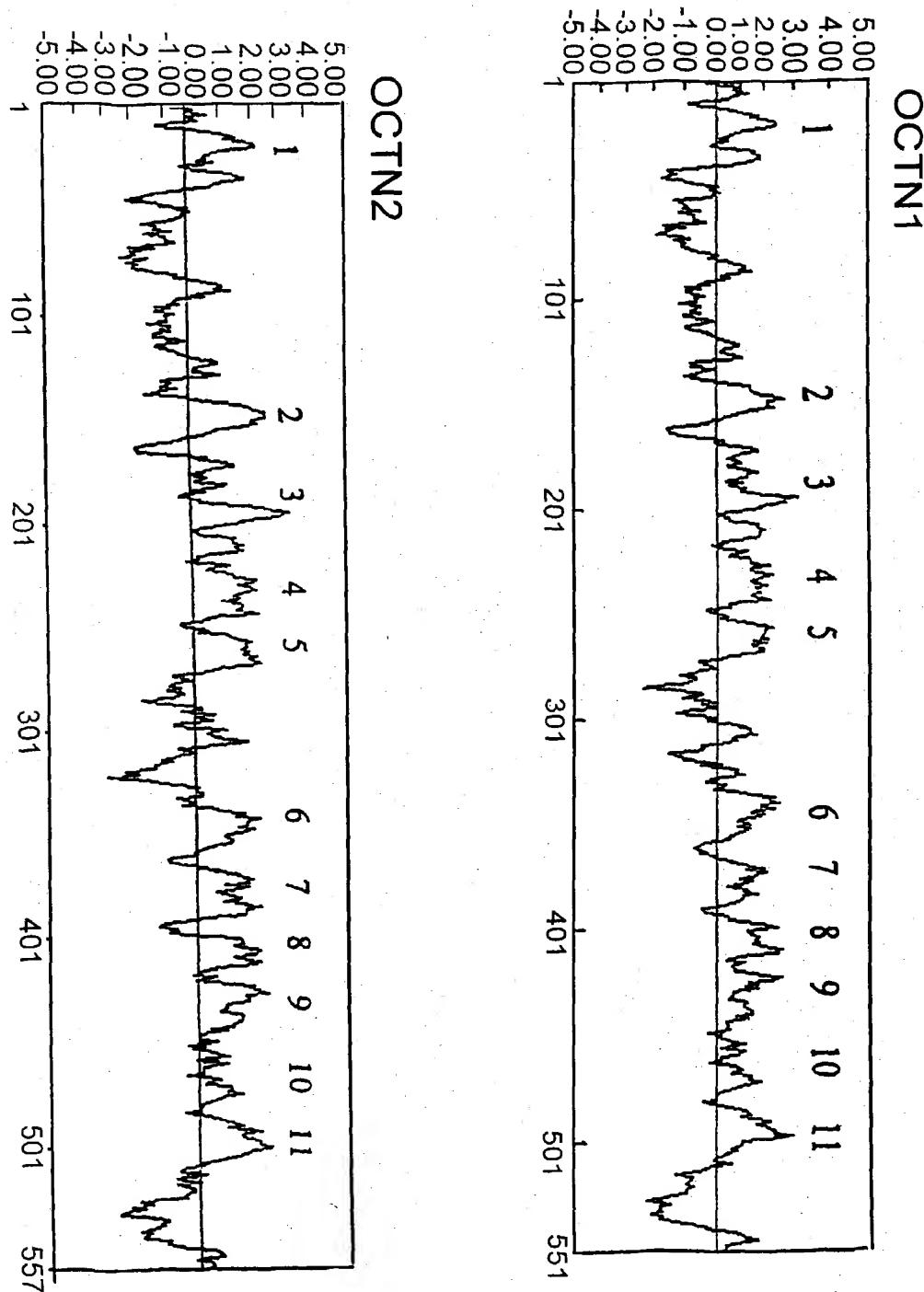


FIG. 1

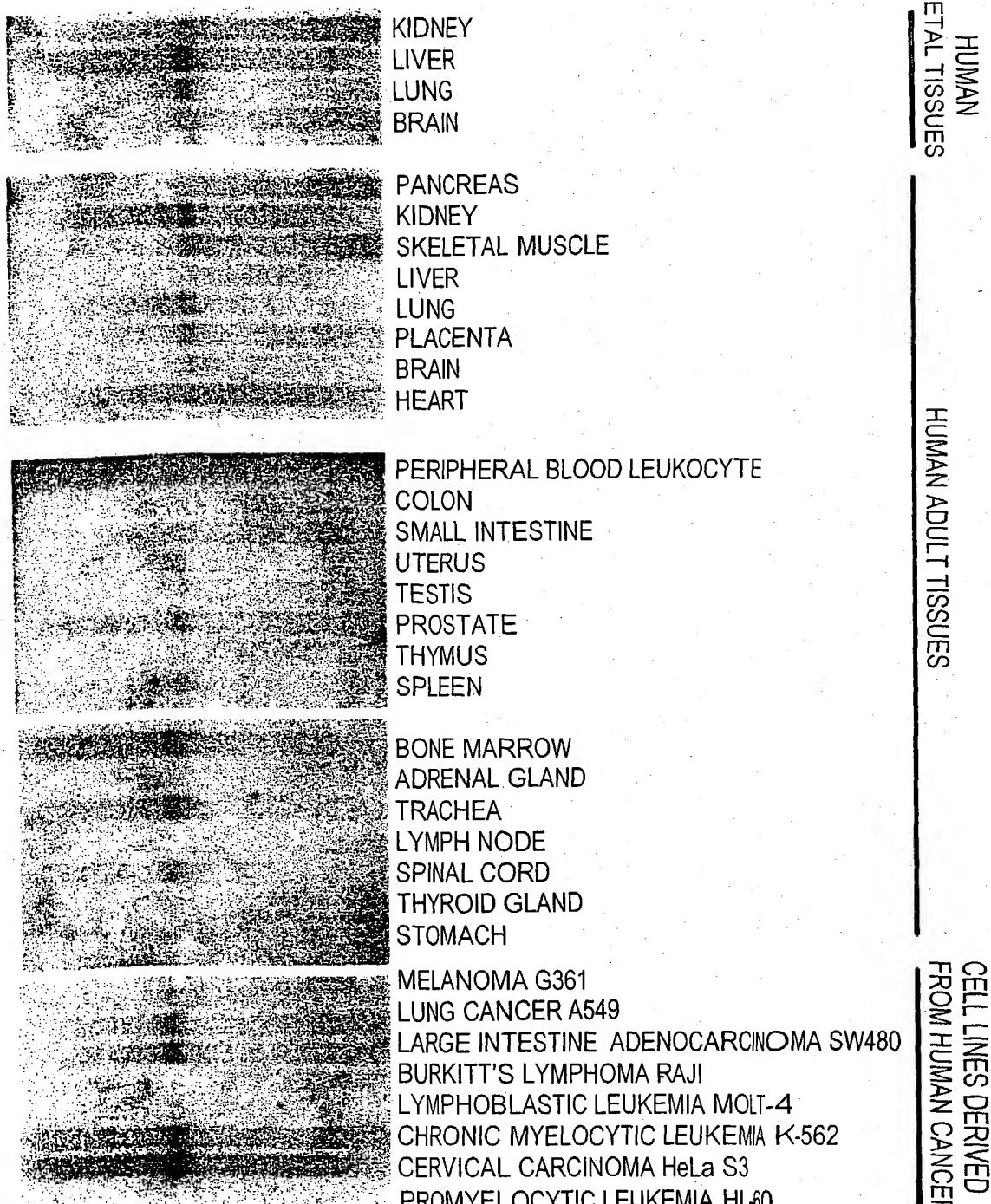


FIG. 2

↑  
2.5kb

Applicant(s): Jun-ichi Nezu et al.

TRANSPORTER POLYPEPTIDE AND METHOD OF  
PRODUCING SAME

OCTN1	1	MRDYDEVIAF	GEWGPFDI	IFFLSSASIT	PNGFNGNSW	FLAGPEHRC	RVPDAANLSS	AWRNNSNPLR	LRDGREPHS	DSRYRLATIA	NFSANGLEPG	
OCTN2	1	MRDYDEVIAF	GEWGPFDI	IFFLSSASIT	PNGFNGNSW	FLAGPEHRC	RVPDAANLSS	AWRNNSNPLR	LRDGREPHS	DSRYRLATIA	NFSANGLEPG	
*****												
OCTN1	101	RDVIGGEGQ	ESCLGWEFS	RDVLSITM	EWNLVEDW	RWPLTISUFF	VGVLLGSFNS	+ GOLSDRGFR	NVLPAATMAG	LGFSFLOIFS	ISWETMIVLE	
OCTN2	101	RDVIGGEGQ	ESCLGWEFS	RDVLSITM	EWNLVEDW	RWPLTISUFF	VGVLLGSFNS	GOLSDRGFR	NVLPAATMAG	LGFSFLOIFS	ISWETMIVLE	
*****												
OCTN1	201	VLVGMGQTSN	YWAELIGTE	ILGKSVRITE	STLGVQIEFA	VGYMLPLFA	YFIROWRMU	VALTMGPVLC	WPMWMFIPES	PRWLISORF	READDCOKA	
OCTN2	201	VLVGMGQTSN	YWAELIGTE	ILGKSVRITE	STLGVQIEFA	VGYMLPLFA	YFIROWRMU	VALTMGPVLC	WPMWMFIPES	PRWLISORF	READDCOKA	
*****												
OCTN1	301	AKMNTANPA	VIIFDS - VEE	DNLKQOKAF	ILDFTRTRNI	AIMMTMSLQ	WML	TSVGYFA	LSDAPNLHG	DAYLNCFLSA	LIEIPAYTA	WLCORTLPRR
OCTN2	301	AKMNTANPA	VIIFDS - VEE	DNLKQOKAF	ILDFTRTRNI	AIMMTMSLQ	WML	TSVGYFA	LSDAPNLHG	DAYLNCFLSA	LIEIPAYTA	WLCORTLPRR
*****												
OCTN1	399	WLTAVWENG	GSVLEFLQY	PWMMFDSIG	LVMGKFGID	SASFSAVFT	AELYPTVNR	MANGVSTAS	RVGSIJAPYF	VLYGAYBMO	PTYNGSLW	MLLQYLPRR
OCTN2	401	WLTAVWENG	GSVLEFLQY	PWMMFDSIG	LVMGKFGID	SASFSAVFT	AELYPTVNR	MANGVSTAS	RVGSIJAPYF	VLYGAYBMO	PTYNGSLW	MLLQYLPRR
*****												
OCTN1	499	DIQFTEFP	ESGMITPEDI	LEDOMOKVKMF	RSGRK ---	DSMETEENPK	W	ITAF	551			
OCTN2	501	DIQFTEFP	ESGMITPEDI	LEDOMOKVKMF	RSGRK ---	DSMETEENPK	W	ITAF	557			

FIG. 3

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TRANSPORTER POLYPEPTIDE AND METHOD OF  
PRODUCING SAME

HUMAN  
FETAL TISSUES

KIDNEY  
LIVER  
LUNG  
BRAIN

PANCREAS  
KIDNEY  
SKELETAL MUSCLE  
LIVER  
LUNG  
PLACENTA  
BRAIN  
HEART

HUMAN ADULT TISSUES

PERIPHERAL BLOOD LEUKOCYTE  
COLON  
SMALL INTESTINE  
UTERUS  
TESTIS  
PROSTATE  
THYMUS  
SPLEEN

BONE MARROW  
ADRENAL GLAND  
TRACHEA  
LYMPH NODE  
SPINAL CORD  
THYROID GLAND  
STOMACH

CELL LINES DERIVED  
FROM HUMAN CANCER

MELANOMA G361  
LUNG CANCER A549  
LARGE INTESTINE ADENOCARCINOMA SW480  
BURKITT'S LYMPHOMA RAJI  
LYMPHOBLASTIC LEUKEMIA MOLT-4  
CHRONIC MYELOCYTIC LEUKEMIA K-562  
CERVICAL CARCINOMA HeLa S3  
PROMYELOCYTIC LEUKEMIA HL-60

3.0 kb

FIG. 4

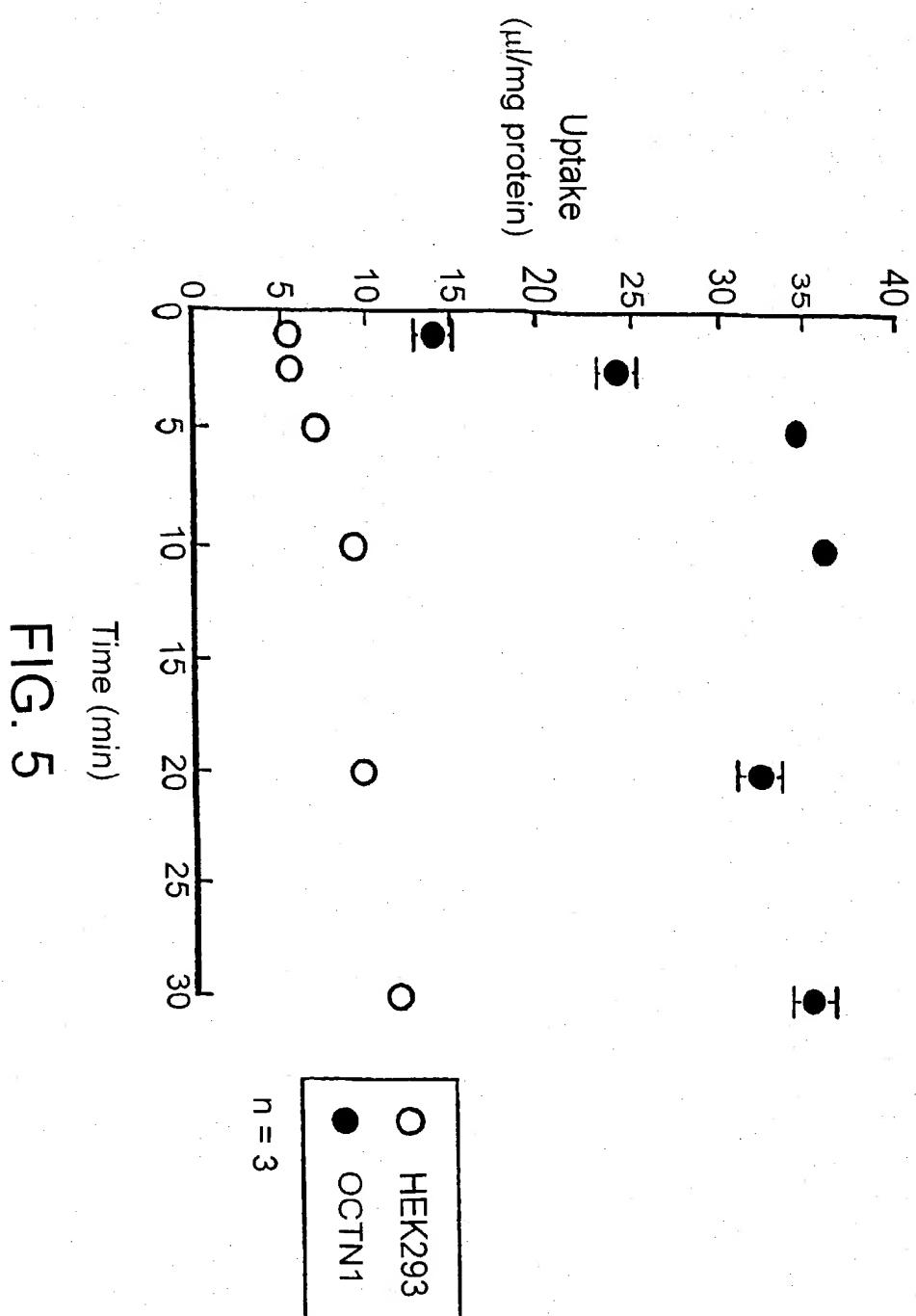


FIG. 5

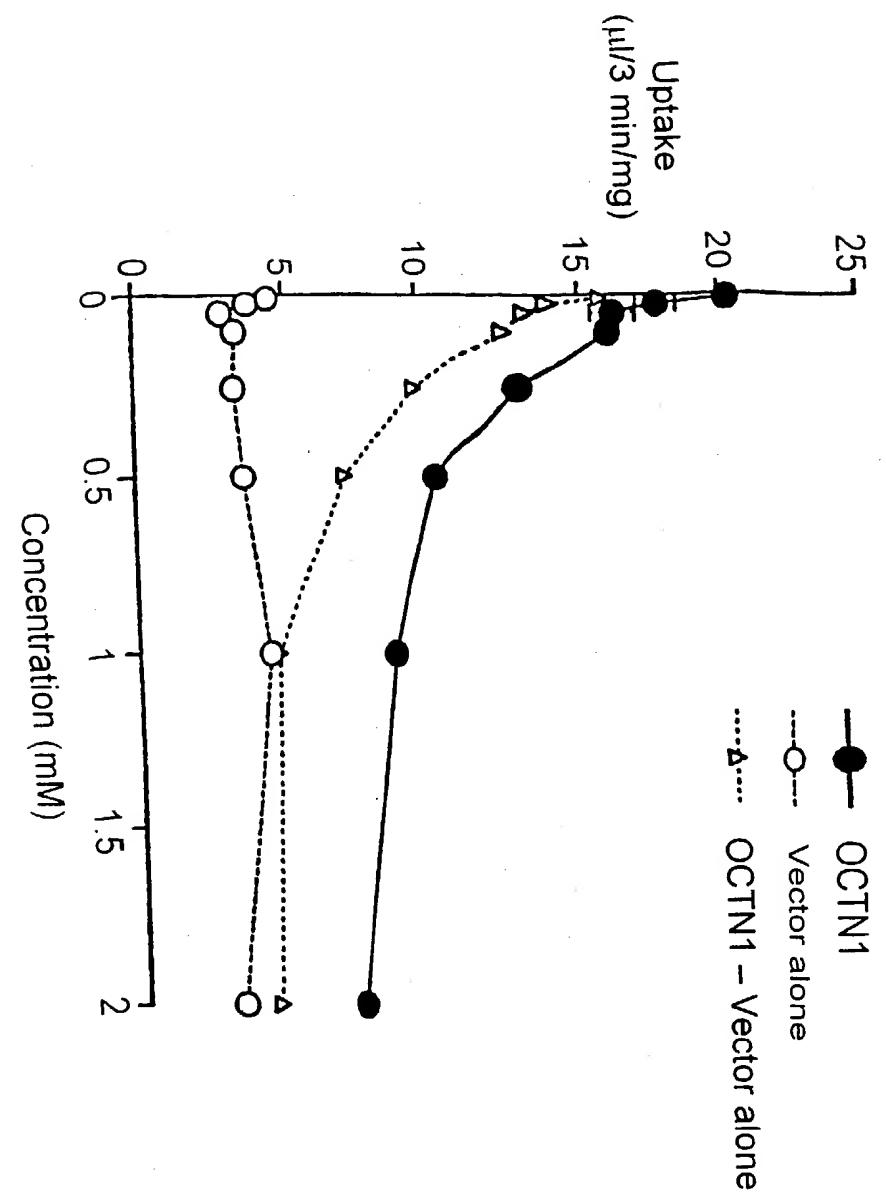
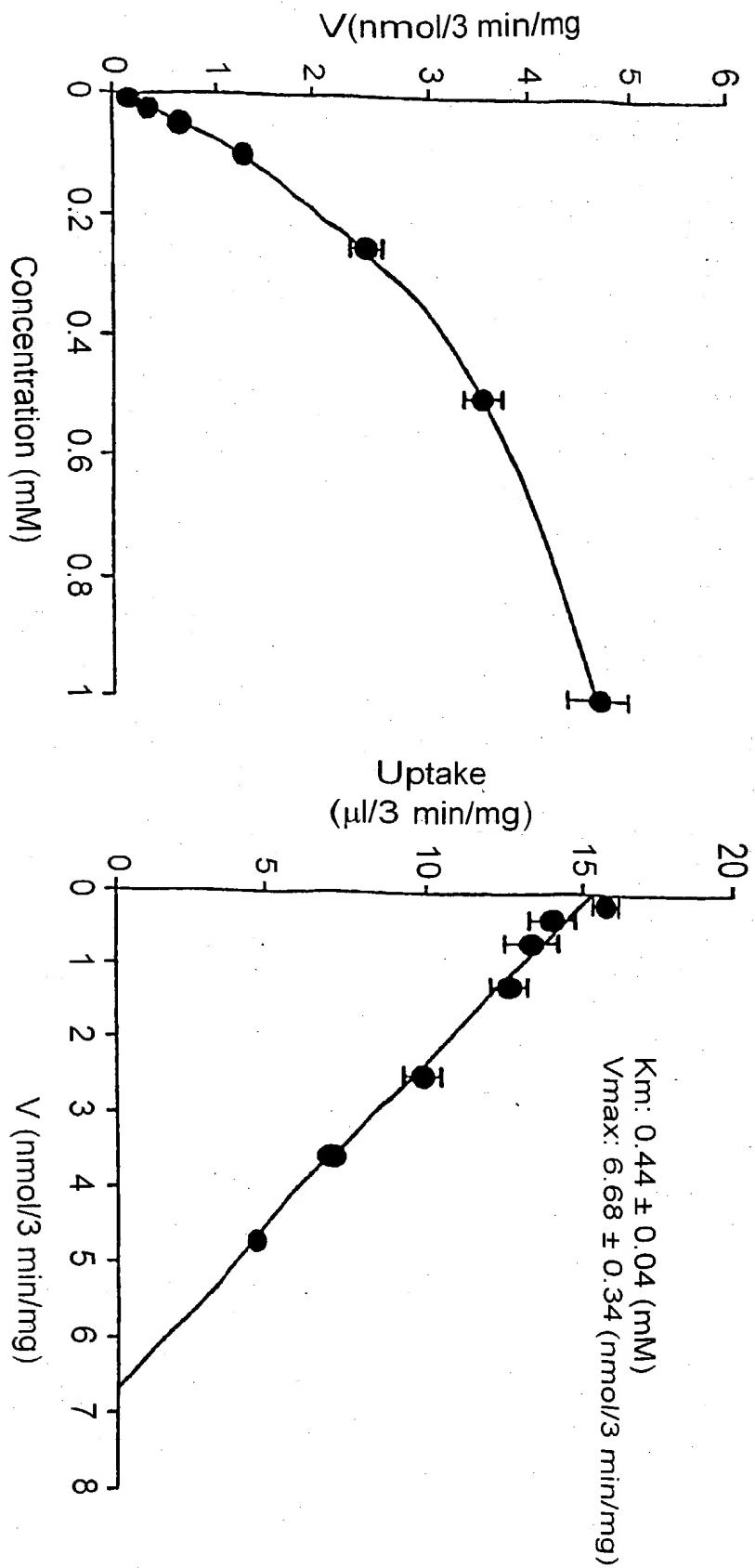


FIG. 6



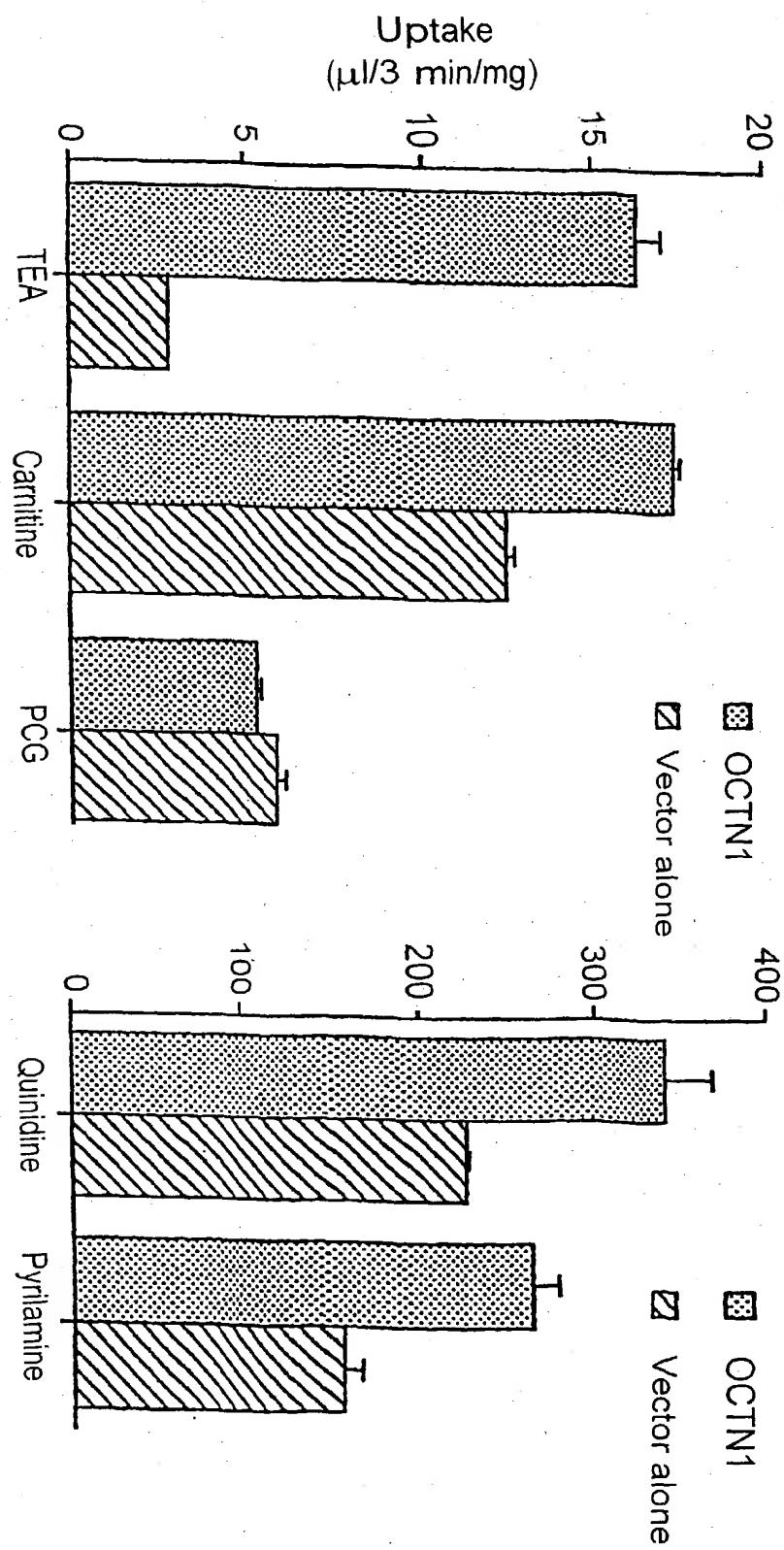


FIG. 8

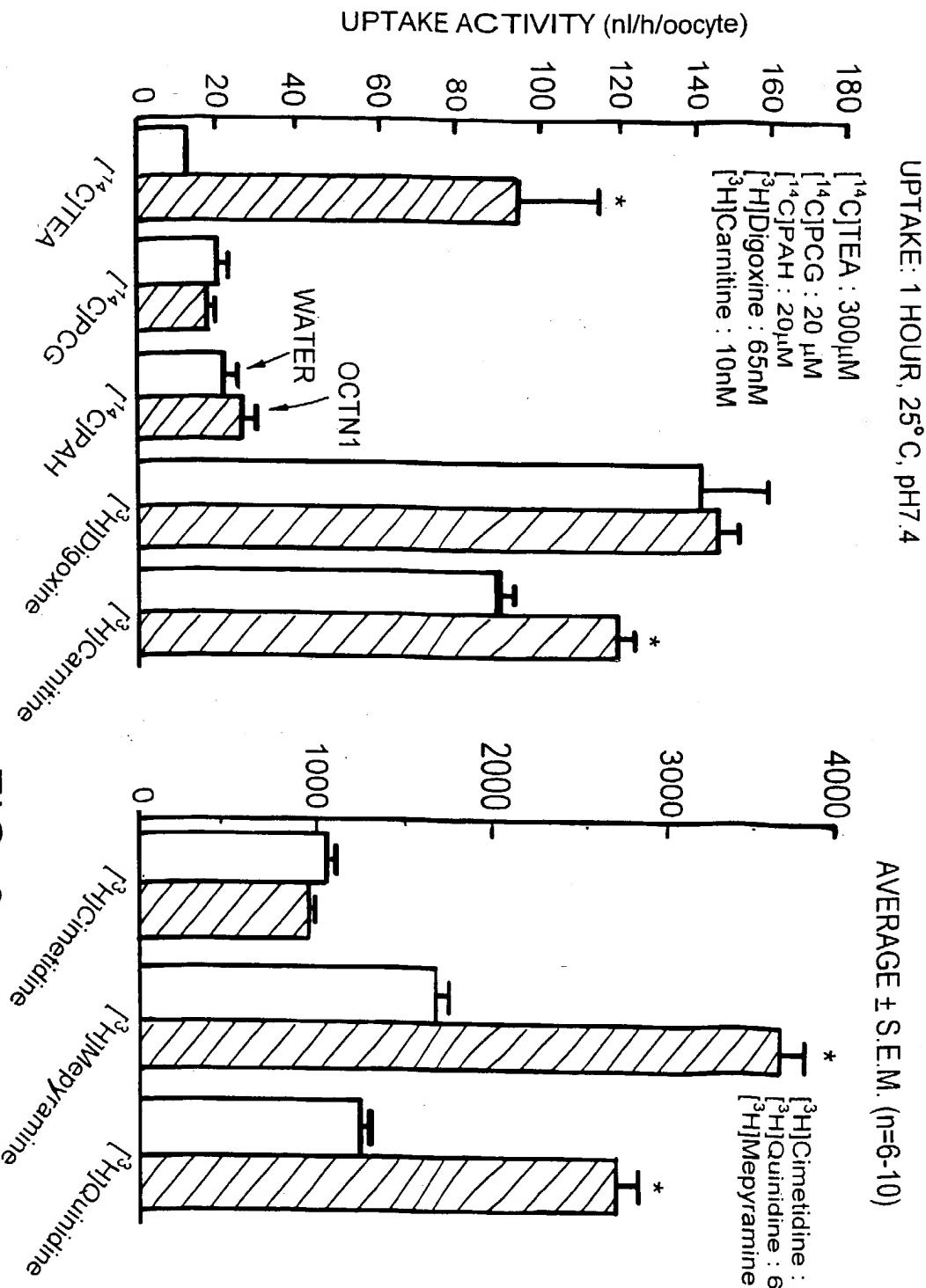


FIG. 9

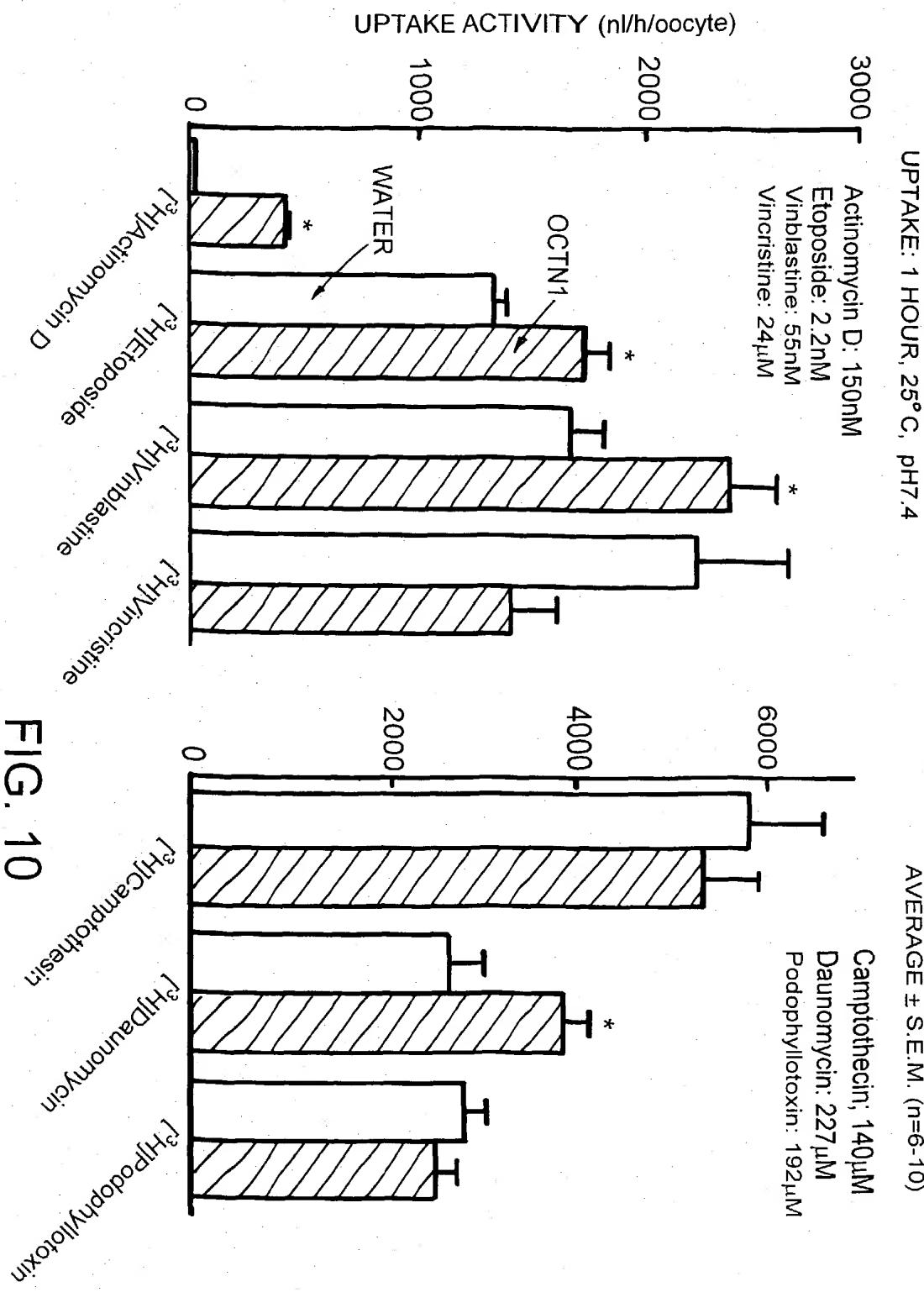
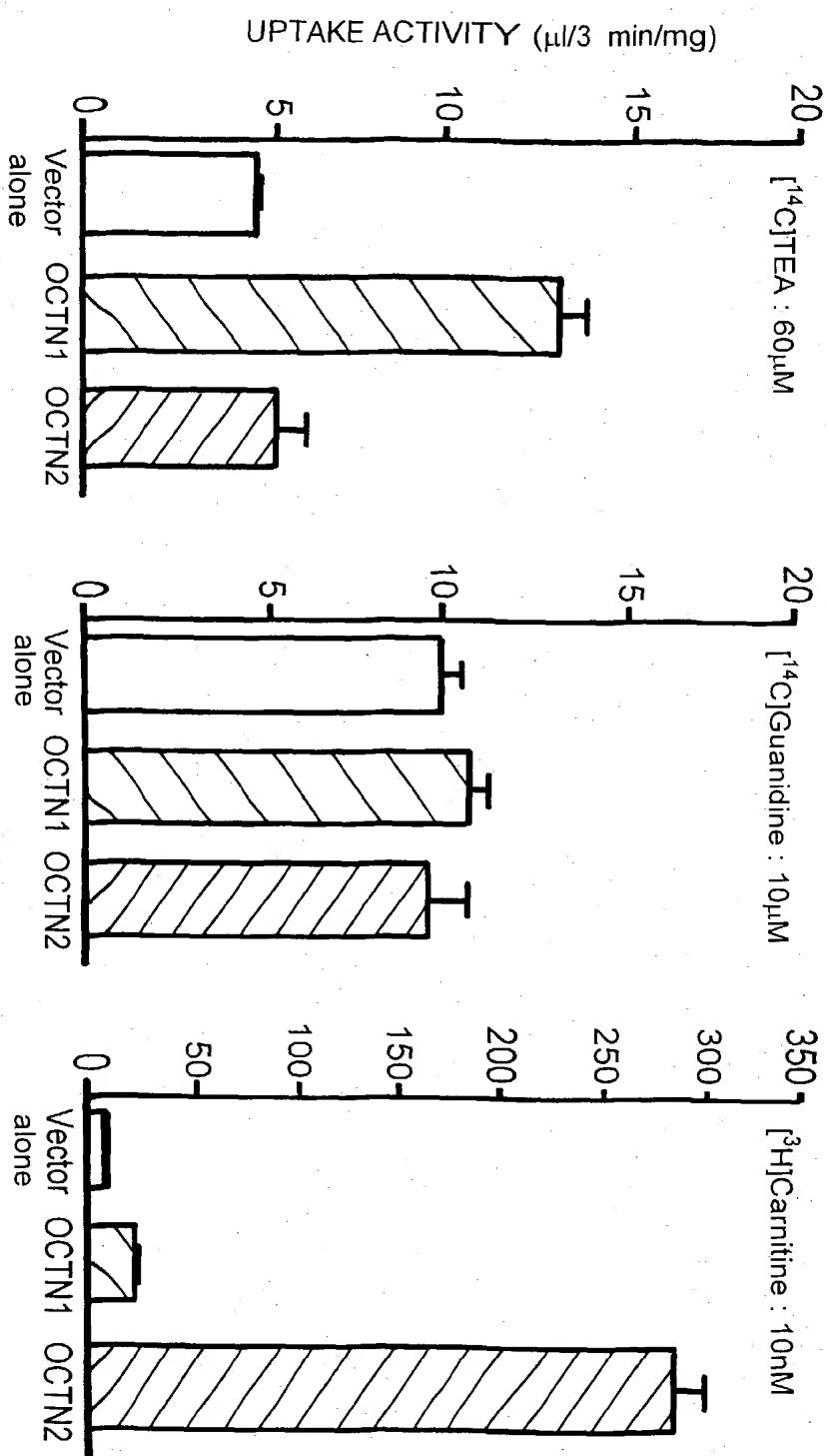


FIG. 10

TRANSPORTER POLYPEPTIDE AND METHOD OF  
PRODUCING SAME



Uptake: 3 min, 37°C, pH7.4

FIG. 11 Average  $\pm$  S.E.M. (n = 3)

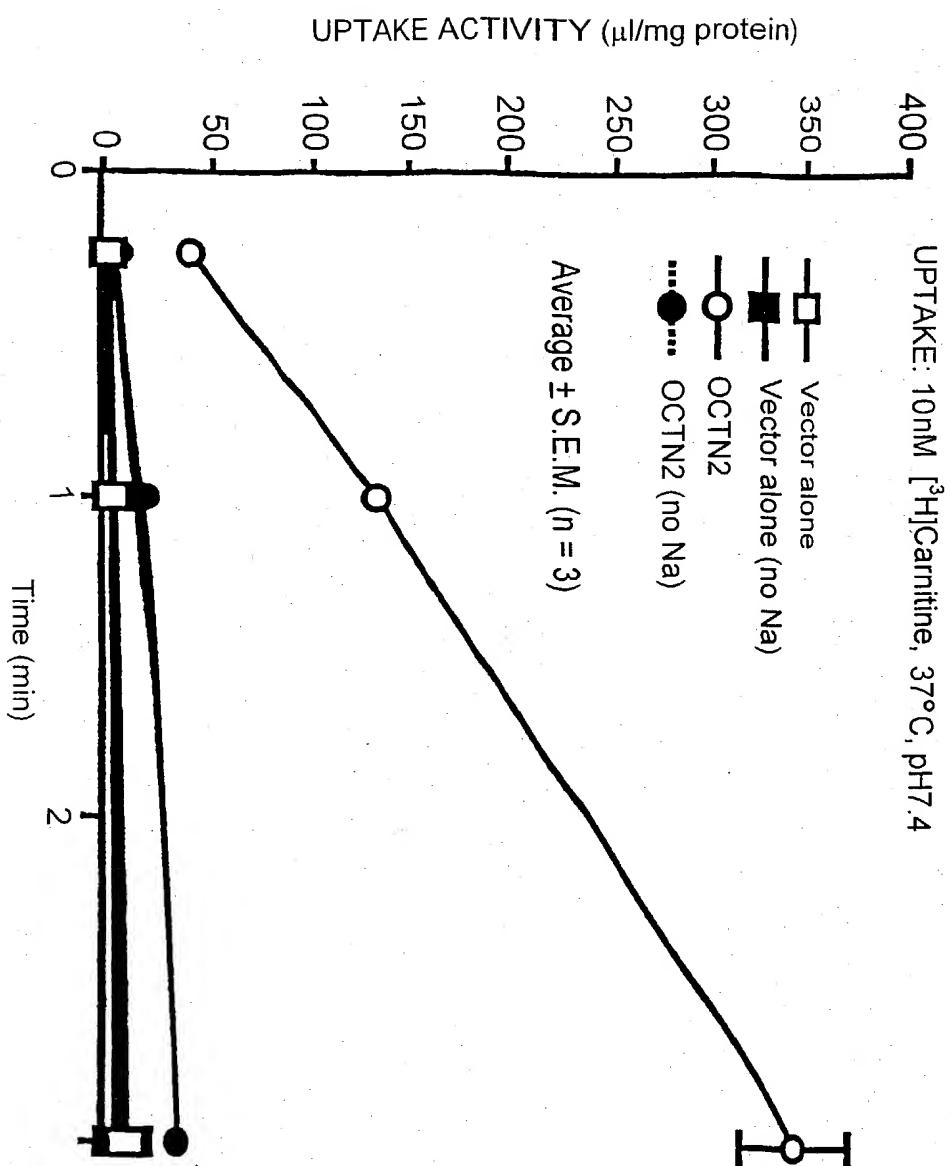


FIG. 12

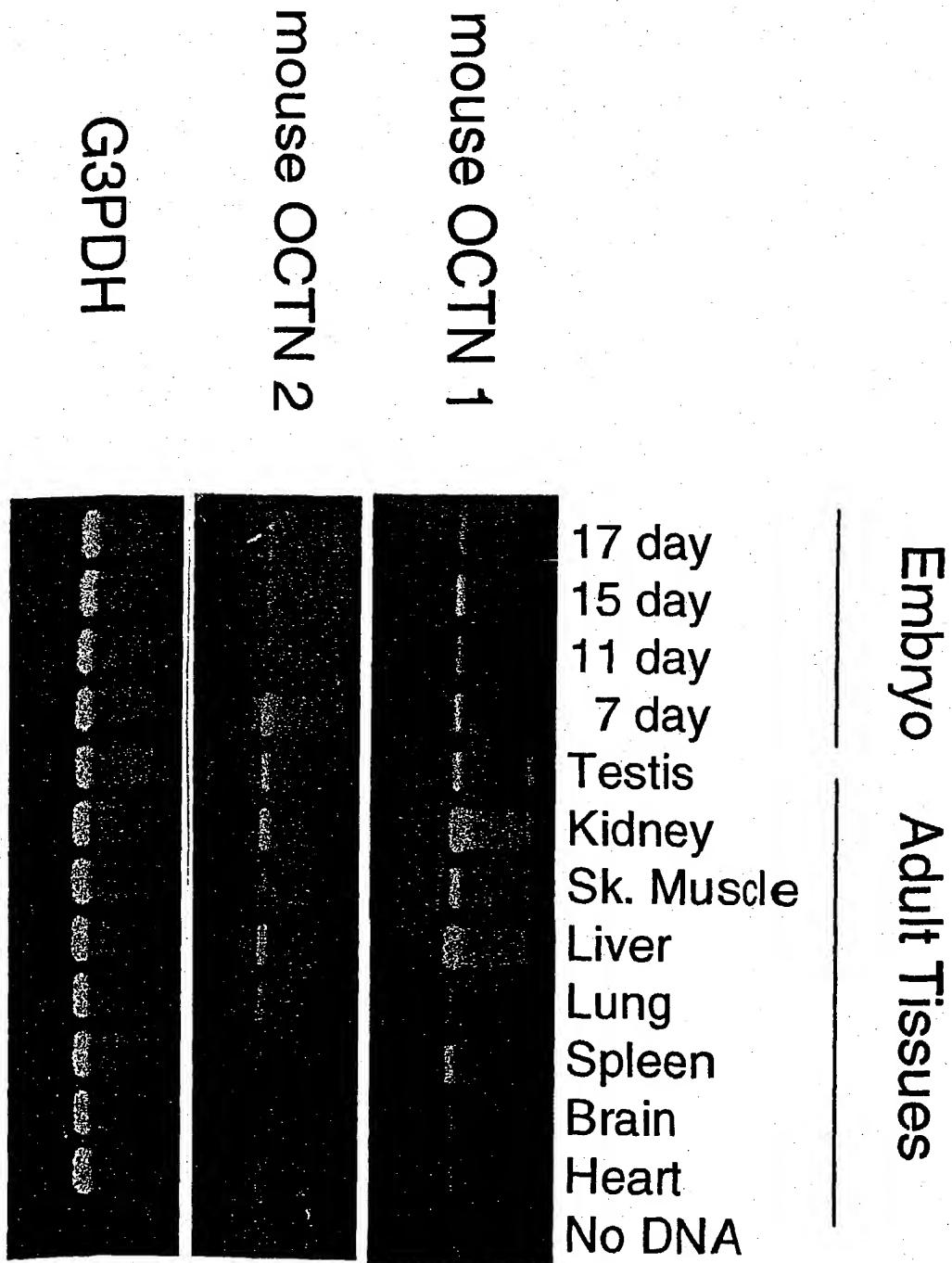


FIG. 13